

We claim:

1. A process for producing articles or substrates with at least one surface on which a liquid A has low adhesion at a temperature  $T \geq T_1$ , by applying a substance B in liquid or in dissolved form to a surface S of the substrate or article in an amount which covers the surface, which comprises using a surface S which has many depressions and/or elevations, where the average distance between adjacent elevations is in the range from 0.01 to 500  $\mu\text{m}$  and the average height difference between mutually adjacent elevations and depressions is in the range from 0.01 to 500  $\mu\text{m}$ , the substance B is immiscible with the liquid A and soluble therein to an extent of less than 0.1 g/l (at 20°C and 1013 mbar), and has been selected from low-molecular-weight and oligomeric substances B1 which are liquid at the temperature  $T_1$  and plastic polymeric substances B2 which do not have a measurable flow threshold at temperatures  $\geq T_1$ .
2. A process as claimed in claim 1, wherein the substance B has a static contact angle  $\theta_B < 10^\circ$  (at 20°C and 1013 mbar) on the surface.
3. A process as claimed in claim 1, wherein the selection of the substance B is such that it complies with the relationship of formula I:

$$\gamma_B \cdot \cos(\theta_B) - \gamma_A \cdot \cos(\theta_A) - \gamma_{A/B} > 0 \quad (\text{I})$$

where

- $\gamma_A$  is the surface tension of the liquid A  
 $\theta_A$  is the static contact angle of the liquid A on the untreated surface S  
 $\gamma_B$  is the surface tension of the substance B  
 $\theta_B$  is the static contact angle of the liquid substance B on the untreated surface S, and  
 $\gamma_{A/B}$  is the surface tension at the boundary between liquid A and substance B.

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4. A process as claimed in claim 1, wherein the substance B has been selected from liquids with a kinematic viscosity  $\leq 10000$  mm<sup>2</sup>/sec (at 20°C).
- 5 5. A process as claimed in claim 1, wherein the amount of the substance B applied to the surface is from  $10^{-3}$  g/m<sup>2</sup> to 100 g/m<sup>2</sup>.
6. A process as claimed in claim 1, wherein the temperature T1  
10 is at least -10°C.
7. A process as claimed in claim 1, wherein the liquid A has been selected from aqueous liquids.
- 15 8. A process as claimed in claim 1, wherein the surface tension of the substance B at its boundary is  $\leq 50$  mN/m at 20°C.
9. A process as claimed in claim 1, wherein the substance B has been selected from hydrocarbons having at least 8 carbon  
20 atoms, perfluorohydrocarbons having at least 8 carbon atoms, alkanols having at least 8 carbon atoms, silicones, polyisobutenes, poly(alkyl acrylates), poly(alkyl methacrylates), and polyesters.
- 25 10. An article which has at least one surface which is obtainable by a process as claimed in claim 1.

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